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APPLICATION N	). E	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/634,560		08/05/2003	Chen-Heng Cheng	6890-5	6020	
4897	7590	03/11/2005		EXAMINER		
	C. KAIN,	JR. HRD AVENUE	NOGUEROLA, ALEXANDER STEPHAN			
SUITE 100				ART UNIT	PAPER NUMBER	
FT LAUDERDALE, FL 333161153				1753		

DATE MAILED: 03/11/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	y.			
	10/634,560	CHENG-HEN ET AL.				
Office Action Summary	Examiner	Art Unit				
	ALEX NOGUEROLA	1753				
The MAILING DATE of this communication Period for Reply	appears on the cover sheet with	the correspondence address				
A SHORTENED STATUTORY PERIOD FOR RETHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFI after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, and If NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by standard patent term adjustment. See 37 CFR 1.704(b).	ON. R 1.136(a). In no event, however, may a rep I. I reply within the statutory minimum of thirty ( I riod will apply and will expire SIX (6) MONTH atute, cause the application to become ABAI	ly be timely filed  30) days will be considered timely. IS from the mailing date of this communication NDONED (35 U.S.C. § 133).	on.			
Status						
1) Responsive to communication(s) filed on _						
•	This action is non-final.					
3) Since this application is in condition for allo						
Disposition of Claims						
4)⊠ Claim(s) <u>1-10</u> is/are pending in the applicate 4a) Of the above claim(s) is/are with 5)⊠ Claim(s) <u>1-4 and 8-10</u> is/are allowed. 6)⊠ Claim(s) <u>5-7</u> is/are rejected. 7)□ Claim(s) is/are objected to. 8)□ Claim(s) are subject to restriction are	drawn from consideration.		·			
Application Papers						
9)☐ The specification is objected to by the Exam 10)☒ The drawing(s) filed on <u>05 August 2003</u> is/a Applicant may not request that any objection to Replacement drawing sheet(s) including the cor 11)☐ The oath or declaration is objected to by the	are: a) ☐ accepted or b) ☑ obje the drawing(s) be held in abeyance rrection is required if the drawing(s	e. See 37 CFR 1.85(a). ) is objected to. See 37 CFR 1.121(	(d).			
Priority under 35 U.S.C. § 119	· · · · · · · · · · · · · · · · · · ·					
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of:  1. Certified copies of the priority document	nents have been received. Hents have been received in Apportority documents have been re Breau (PCT Rule 17.2(a)).	olication No eceived in this National Stage				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Sur	mmary (PTO-413) Mail Date	•			
<ol> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB Paper No(s)/Mail Date <u>08/05/2003</u>.</li> </ol>		rmal Patent Application (PTO-152)	GB			

#### **DETAILED ACTION**

## Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the second paragraph of 35 U.S.C. 112:
  - a. The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claims 5 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention:
  - a) Claim 5, line 1: "one from the group of' should be -- selected from the group consisting of --;
  - b) Claim 6, lines 1-2: "one material from the group" should -- a material selected from the group consisting of --;
  - c) Claim 7, line 1: "one from the group of" should be -- selected from the group consisting of --; and
  - d) Claim 7 recites the limitation "the surfactant" in line 1. There is insufficient antecedent basis for this limitation in the claim.
- 3. Note that dependent claims will have the deficiencies of base and intervening claims.

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#### **Drawings**

4. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the slot forming a terminal end hook which gathers analyte (Claim 9) must be shown or the feature canceled from the claims. No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

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### Allowable Subject Matter

5. Claims 1-4 and 8-10 are allowed.

6. Claims 5-7 would be allowable if rewritten to overcome the rejections under

35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations

of the base claim and any intervening claims.

7. The following is a statement of reasons for the indication of allowable subject matter:

a) Claim 1 requires (a) a screen having a porosity between 10% and 40% to control

analyte flow and volume in the slot, and (b) the open-topped slot of the dielectric layer

and the open-topped slot of the cover layer to be open to the terminal end of the electrode

support.

The embodiment shown in Figure 3 of Bhullar et al. (US 6,627,057 B1)

("Bhullar") does not comprise a screen for controlling sample flow and volume, but an

agglomeration of microspheres. See col. 2:51-65; the abstract; and col. 1:51-57. It would

not have been obvious to one with ordinary skill in the art at the time of the invention to

substitute a screen having a porosity of between 10% and 40% for the microspheres

because Bhullar specifically requires that the microspheres be discrete particles: "The

microspheres are not physically attached to each other, and therefor do not include

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fabrics, fleeces, nor two or three-dimensional networks or honeycomb structures. Rather, once sample is present, each microsphere is physically unattached." See col. 3:24-38.

In Hughes et al. '823 neither the slot in the cover layer nor the slot in the dielectric layer is open to the terminal end of the electrode support. See Figure 1. It would not have been obvious to one with ordinary skill in the art at the time of the invention to have the slot in the cover layer and the dielectric layer be open to the terminal end of the support because the electrode strip of Hughes '823 is designed to receive sample vertically at the top of the strip, not horizontally at the end of the strip. As seen from Figures 5A and 5B; col. 7:6-11; and col. 2:18-32 the slot in the cover layer and the slot in the dielectric layer are configured for a particular top-to-bottom sample flow path.

Carter et al. '890 also does not have the slot in the cover layer or the dielectric layer open to the terminal end of the support. Sample is received vertically through the cover layer and percolates downward to the electrodes. Figures 1 and 1a and col. 6:54-65; and

- b) Claims 2-10 depend directly or indirectly from allowable claim 1.
- 8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to ALEX NOGUEROLA whose telephone number is (571) 272-1343. The examiner can normally be reached on M-F 8:30 5:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, NAM NGUYEN can be reached on (571) 272-1342. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Alex Noguerola Primary Examiner

AU 1753

March 6, 2005